

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of

Atty Dkt. 829-522

NAKATSU et al

C# M#

Serial No. 09/373,544

Group Art Unit: 2811

Filed: August 13, 1999

Examiner: Donghee Kang.

Title: SEMICONDUCTOR LIGHT-EMITTING DIODE

Date: April 22, 2002

Assistant Commissioner for Patents  
Washington, DC 20231

Sir:

**RESPONSE/AMENDMENT/LETTER**

This is a response/amendment/letter in the above-identified application and includes an attachment which is hereby incorporated by reference and the signature below serves as the signature to the attachment in the absence of any other signature thereon.

**Fees are attached as calculated below:**

Total effective claims after amendment 16 minus highest number  
previously paid for 20 (at least 20) = 0 x \$ 18.00 \$ 0.00

Independent claims after amendment 4 minus highest number  
previously paid for 3 (at least 3) = 1 x \$ 84.00 \$ 84.00

If proper multiple dependent claims now added for first time, add \$280.00 (ignore improper) \$ 0.00

Petition is hereby made to extend the current due date so as to cover the filing date of this  
paper and attachment(s) (\$110.00/1 month; \$400.00/2 months; \$920.00/3 months) \$ 0.00

Terminal disclaimer enclosed, add \$ 110.00 \$ 0.00

☐ First/second submission after Final Rejection pursuant to 37 CFR 1.129(a) (\$740.00) \$ 0.00

☐ Please enter the previously unentered, filed

☐ Submission attached

**Subtotal \$ 84.00**

If "small entity," then enter half (1/2) of subtotal and subtract -\$ 0.00

☐ Applicant claims "small entity" status. ☐ Statement filed herewith

Rule 56 Information Disclosure Statement Filing Fee (\$180.00) \$ 0.00

Assignment Recording Fee (\$40.00) \$ 0.00

Other: 0.00

**TOTAL FEE ENCLOSED \$ 84.00**

The Commissioner is hereby authorized to charge any deficiency, or credit any overpayment, in the fee(s) filed, or asserted to be filed, or which should have been filed herewith (or with any paper hereafter filed in this application by this firm) to our Account No. 14-1140. A duplicate copy of this sheet is attached.

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NIXON & VANDERHYE P.C.  
By Atty: H. Warren Burnam, Jr., Reg. No. 29,366

Signature: *H. Warren Burnam, Jr.*

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In re Patent Application of

NAKATSU et al

Serial No. 09/373,544

Filed: August 13, 1999

For: SEMICONDUCTOR LIGHT-EMITTING DIODE

\* \* \* \* \*

Assistant Commissioner for Patents  
Washington, DC 20231

Sir:

**AMENDMENT**

Responsive to the Official Action dated January 28, 2002, please amend the  
above-identified application as follows:

**IN THE CLAIMS**

**Please amend claims 1 and 14 as follows:**

1. {TWICE AMENDED} A light -emitting diode comprising:
- a semiconductor substrate; and
  - a layered structure comprising an AlGaInP type compound semiconductor material and provided on the semiconductor substrate,
- wherein the layered structure comprises:
- a light-emitting structure composed of a pair of cladding layers and an active layer for emitting light provided between the pair of cladding layers; and
  - a current diffusion layer comprising an AlGaInP type material which is lattice-mismatched with the light-emitting structure, wherein a lattice mismatch  $\Delta a/a$  of the current diffusion layer with respect to the light-emitting structure defined by the following expression is -1% or smaller:



Atty. Ref.: 829-522

Group: 2811

Examiner: Donghee Kang.

#10  
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✓  
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